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Application No. 10/576,500

Response to Notice of Non-Compliant Amendment

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (withdrawn) A modified virus ablated of its natural receptors interactions with an unmodified or non-naturally occurring cell, said modified virus comprising a non-native polypeptide, said modified virus having an altered tropism conferred by said non-native peptide, and replicating only in cells that can interact with said non-native peptide, said virus being incapable of infecting a cell through a CAR-dependent entry pathway.
- 2. (withdrawn) The modified virus of claim 1, which is derived from a virus selected from the group consisting of adenovirus, retrovirus, lentivirus, adeno-associated virus, Reoviridae, Picornaviridae, Parvoviridae, Papovaviridae and Caliciviridae.
- (withdrawn) The modified virus of claim 1, which is derived from human adenovirus.
- 4. (withdrawn) The modified virus of claim 1, which is derived from human adenovirus serotype 2 or 5.
- 5. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide replaces, is incorporated into, or forms a fusion protein with, a viral protein component of the wild type virus.
- 6. (withdrawn) The modified virus of claim 5, wherein said viral protein component is an adenoviral fiber protein.
- 7. (withdrawn) The modified virus of claim 6, wherein said non-native polypeptide is incorporated into an adenoviral fiber protein such that the wild-type fiber knob or cell binding domain thereof is removed.
- 8. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide is or comprises a combinatorial protein or an affibody.

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- 9. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide comprises one or more sequence from a bacterial receptor ligand.
- 10. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide comprises at least one repeat of a sequence as set forth in SEQ ID NO:1.
- 11. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide comprises at least one repeat of a sequence as set forth in SEQ ID NO:2.
- 12. (withdrawn) The modified virus of claim 1, wherein said non-native polypeptide binds a non-naturally occurring production cell or permissive cell.
- 13. (previously amended) The modified virus of claim 1, further comprising a retargeting adapter comprising: i) a binding moiety for binding the non-native polypeptide and ii) a further binding moiety of a receptor for retargeting said virus on cells expressing said receptor.
- 14. (original) The modified virus of claim 13, wherein said non-native polypeptide comprises at least one repeat of a sequence as set forth in SEQ ID NO:1 and said binding molety for binding the non-native polypeptide comprises at least one repeat of SEQ ID NO:2.
- 15. (original) The modified virus of claim 13, wherein said non-native polypeptide comprises at least one repeat of a sequence as set forth in SEQ ID NO:2 and said binding moiety for binding the non-native polypeptide comprises at least one repeat of SEQ ID NO:1.
- 16. (previously amended) The modified virus of claim 13, wherein said adapter binds to the non-native polypeptide through non-covalent physical forces selected from the group consisting of van der waals forces, electrostatic forces, stacking interactions, hydrogen bonding and steric fit.
- 17. (previously amended) The modified virus of claim 1, wherein said non-native polypeptide comprises a cleavage site positioned in a location that enables a further binding moiety of a receptor to be added on the modified virus for retargeting said virus on cells expressing said receptor.
- 18. (original) The modified virus of claim 17, wherein the binding moiety is capable of binding to a cell specific ligand.

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- 19. (withdrawn) The modified virus of claim 1, which further comprises a site for insertion of one or more desired therapeutic genes or nucleic acid molecules.
- 20. (withdrawn) A cell containing a modified virus as defined in claim 1.
- 21. (withdrawn) A permissive cell for a modified virus as defined in claim 1, which is capable of being cultured to propagate said modified virus.
- 22. (withdrawn) A non-naturally occurring permissive cell expressing a surface receptor recognizing or binding a non-native polypeptide as defined in claim 1.
- 23. (withdrawn) A non-naturally occurring permissive cell expressing a surface receptor recognizing or binding a non-native polypeptide as defined in claim 10, wherein said surface receptor comprises at least one copy of the amino acid sequence as set forth in SEQ ID NO:2.
- 24. (withdrawn) A non-naturally occurring permissive cell expressing a surface receptor recognizing or binding a non-native polypeptide as defined in claim 11, wherein said surface receptor comprises at least one copy of the amino acid sequence as set forth in SEQ ID NO:1.
- 25. (withdrawn) A method for producing a modified virus as defined in claim 1 in cell culture, comprising the steps of: i) genetically modifying a virus to produce a modified virus ablated of its natural receptors interactions with an unmodified or non-naturally occurring cell, said modified virus comprising a non-native polypeptide, said modified virus having an altered tropism conferred by said non-native peptide, and replicating only in cells that can interact with said non-native peptide; ii) infecting permissive cells with said modified virus; and iii) culturing said cells to produce the virus.
- 26. (withdrawn) The method of claim 25, further comprising a step of iv) harvesting the modified virus produced.
- 27. (withdrawn) The method of claim 26, further comprising a step of v) purifying the modified virus produced.
- 28. (cancelled)
- 29. (cancelled)
- 30. (withdrawn) A pharmaceutical composition comprising a modified virus as defined in claim 1 and a pharmaceutically acceptable carrier or excipient.

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- 31. (withdrawn) A reagent kit comprising: i) a modified virus as defined in claim 1 and ii) a permissive cell expressing a surface receptor recognizing or binding a non-native polypeptide, said cell being capable of being infected by said modified virus.
- 32. (withdrawn) A medicament or a precursor thereof comprising a virus as defined in claim 1.
- 33. (cancelled)